

ALBERT D. KING

CONSULTING ENGINEER

P. O. BOX 329
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TEL. 1089

December 13, 1947

Miss Grace Marshall
Chapin House
Smith College
Northampton, Massachusetts

Dear Miss Marshall:

The quotation on wire for use in connection to a low voltage side of your transformers will have to be No. 10 lead-covered wire. This will allow its use through your manholes with 2300 volt wire. The cost for this wire at present is \$136 per thousand feet in quantities of 10,000 feet or more. You will probably need at least this minimum.

You can estimate the approximate cost of this wire installed by doubling the price of the wire and adding 10 cents over your map distances through the tunnels.

This means that the cost per tunnel foot will run about 30 cents per foot. This price includes the cost of the wire and the installation, with allowance for the connecting ends necessary to reach the low side of your transformers.

With this information I hope that you can get a better picture of what it will cost to make your initial installation. It has occurred to me that possibly your estimates which you have had from other college installations were based on a considerable amount of the work of designing and assembling being done by the students themselves. In your case this will not be possible and it will be necessary for you to buy both the equipment design and installation. I shall be glad to do anything I can in assisting you in preparing this estimate.

Miss Grace Marshall

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Incidentally, I believe I told you the cost of a temperature^{controlled} crystal and oven would run about \$120. Since then, I have located a low price crystal and oven which will meet your specifications of plus or minus 50 cycles. The crystal and oven will cost \$40 and an additional \$12 for the transformer to supply the heater current.

May I wish you a pleasant Christmas vacation and success in getting your radio system started in the new year.

Very truly yours,

Albert D. King

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ADK:rm

